

# Package ‘flightsbr’

April 23, 2024

**Type** Package

**Title** Download Flight and Airport Data from Brazil

**Version** 0.4.1

**Description** Download flight and airport data from Brazil’s Civil Aviation Agency (ANAC) <<https://www.gov.br/anac>>. The data includes detailed information on all aircrafts, aerodromes, airports, and airport movements registered in ANAC, on airfares and on every international flight to and from Brazil, as well as domestic flights within the country.

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**URL** <https://github.com/ipeaGIT/flightsbr>

**BugReports** <https://github.com/ipeaGIT/flightsbr/issues>

**Depends** R (>= 2.10)

**Imports** data.table (>= 1.14.0), httr (>= 1.4.1), parzer, pbapply, rvest

**Suggests** dplyr, ggplot2 (>= 3.3.1), rmarkdown (>= 2.6), knitr, testthat

**VignetteBuilder** knitr

**Encoding** UTF-8

**NeedsCompilation** yes

**RoxygenNote** 7.3.1

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**Repository** CRAN

**Date/Publication** 2024-04-23 20:30:11 UTC

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flightsbr

*flightsbr: Download Flight and Airport Data from Brazil*

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### Description

Download flight and airport data from Brazil's Civil Aviation Agency (ANAC) <https://www.gov.br/anac>. The data includes detailed information on all aircrafts, aerodromes, airports, and airport movements registered in ANAC, and on every international flight to and from Brazil, as well as domestic flights within the country.

### Usage

Please check the vignettes and data documentation on the [website](#).

### Author(s)

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- Ipea - Institute for Applied Economic Research [copyright holder, funder]

### See Also

Useful links:

- <https://github.com/ipeaGIT/flightsbr>
- Report bugs at <https://github.com/ipeaGIT/flightsbr/issues>

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latest\_flights\_date     *Check the date of the latest flight data available*

---

**Description**

Check the date of the latest flight data available

**Usage**

```
latest_flights_date()
```

**Value**

A numeric date in the format `yyyymm`.

**Examples**

```
## Not run: if (interactive()) {  
  
  latest_date <- latest_flights_date()  
  
}  
## End(Not run)
```

---

read\_aircrafts     *Download aircrafts data from Brazil*

---

**Description**

Download data of all aircrafts registered in the Brazilian Aeronautical Registry (Registro Aeronáutico Brasileiro - RAB), organized by the Brazilian Civil Aviation Agency (ANAC). A description of all variables included in the data is available at <https://www.gov.br/anac/pt-br/sistemas/rab>.

**Usage**

```
read_aircrafts(date = 202001, showProgress = TRUE)
```

**Arguments**

date	Numeric. Date of the data in the format <code>yyyymm</code> . Defaults to <code>202001</code> . To download the data for all months in a year, the user can pass a 4-digit year input <code>yyyy</code> .
showProgress	Logical. Defaults to <code>TRUE</code> display progress.

**Value**

A "data.table" "data.frame" object. All columns are returned with class of type "character".

**See Also**

Other download flight data: [read\\_flights\(\)](#)

**Examples**

```
## Not run: if (interactive()) {
# Read aircrafts data
aircrafts <- read_aircrafts(showProgress = TRUE)

}
## End(Not run)
```

---

read\_airfares

*Download data on airfares flights in Brazil*


---

**Description**

Download data on air fares of domestic and international flights in Brazil. The data is collected by Brazil's Civil Aviation Agency (ANAC). A description of all variables included in the data for domestic airfares is available at <https://www.anac.gov.br/aceso-a-informacao/dados-abertos/areas-de-atuacao/voos-e-operacoes-aereas/tarifas-aereas-domesticas/46-tarifas-aereas-domesticas>. A description of all variables included in the data for international airfares is available at <https://www.gov.br/anac/pt-br/assuntos/dados-e-estatisticas/microdados-de-tarifas-aereas-comercializadas>.

**Usage**

```
read_airfares(
  date = 202001,
  domestic = TRUE,
  showProgress = TRUE,
  select = NULL
)
```

**Arguments**

date	Numeric. Date of the data in the format yyyyymm. Defaults to 202001. To download the data for all months in a year, the user can pass a 4-digit year input yyyy.
domestic	Logical. Defaults to TRUE download airfares of domestic flights. If FALSE, the function downloads airfares of international flights.
showProgress	Logical. Defaults to TRUE display progress.
select	A vector of column names or positions to keep. The rest of the columns are not read. The order that the columns passed determines the order of the columns in the result.

**Value**

A "data.table" "data.frame" object. All columns are returned with class of type "character".

**Examples**

```
## Not run: if (interactive()) {  
# Read air fare data  
af_201506 <- read_airfares(date = 201506, domestic = TRUE)  
  
af_2015 <- read_airfares(date = 2015, domestic = TRUE)  
}  
## End(Not run)
```

---

read\_airports

*Download airports data from Brazil*

---

**Description**

Download data of all airports and aerodromes registered in Brazil's Civil Aviation Agency (ANAC).

Data source: <https://www.gov.br/anac/pt-br/assuntos/regulados/aerodromos/lista-de-aerodromos-civis-ca>

The data dictionary for public airports can be found at <https://www.anac.gov.br/aceso-a-informacao/dados-abertos/areas-de-atuacao/aerodromos/lista-de-aerodromos-publicos-v2/70-lista-de-aerodromos-p>

The data dictionary for private airports can be found at <https://www.anac.gov.br/aceso-a-informacao/dados-abertos/areas-de-atuacao/aerodromos/lista-de-aerodromos-privados-v2>.

**Usage**

```
read_airports(type = "all", showProgress = TRUE)
```

**Arguments**

type	String. Whether the function should download data on all, public or private airports. Defaults to all, returning fewer columns. Downloading public and private airports separately will return the full set of columns available for each of those data sets.
showProgress	Logical. Defaults to TRUE display progress.

**Value**

A "data.table" "data.frame" object.

**Examples**

```
## Not run: if (interactive()) {  
# Read airports data  
all_airports <- read_airports(type = 'all')  
  
public_airports <- read_airports(type = 'public')
```

```
private_airports <- read_airports(type = 'private')
}
## End(Not run)
```

---

read\_airport\_movements

*Download airport movement data from Brazil*

---

### Description

Download airport movements data from Brazil's Civil Aviation Agency (ANAC). The data covers all passenger, aircraft, cargo and mail movement data from airports regulated by ANAC. Data only available from Jan 2019 onwards. A description of all variables included in the data is available at <https://www.anac.gov.br/aceso-a-informacao/dados-abertos/areas-de-atuacao/operador-aeroportuario/dados-de-movimentacao-aeroportuaria/60-dados-de-movimentacao-aeroportuaria>.

### Usage

```
read_airport_movements(date = 202001, showProgress = TRUE, cache = TRUE)
```

### Arguments

date	Numeric. Date of the data in the format <code>yyyymm</code> . Defaults to <code>202001</code> . To download the data for all months in a year, the user can pass a 4-digit year input <code>yyyy</code> .
showProgress	Logical. Defaults to <code>TRUE</code> display progress.
cache	Logical. Whether the function should read cached data downloaded previously. Defaults to <code>TRUE</code> . If <code>FALSE</code> , the function will always download the data and overwrite cached data.

### Value

A "data.table" "data.frame" object. All columns are returned with class of type "character".

### Examples

```
## Not run: if (interactive()) {
# Read airport movement data
amov202006 <- read_airport_movements(date = 202006)

amov2020 <- read_airport_movements(date = 2020)
}
## End(Not run)
```

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read_flights	<i>Download flight data from Brazil</i>
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### Description

Download flight data from Brazil's Civil Aviation Agency (ANAC). The data includes detailed information on every international flight to and from Brazil, as well as domestic flights within the country. The data include flight-level information of airports of origin and destination, flight duration, aircraft type, payload, and the number of passengers, and several other variables. A description of all variables included in the data is available at <https://www.gov.br/anac/pt-br/assuntos/regulados/empresas-aereas/Instrucoes-para-a-elaboracao-e-apresentacao-das-demonstracoes-contabeis/descricao-de-variaveis>.

### Usage

```
read_flights(  
  date = 202001,  
  type = "basica",  
  showProgress = TRUE,  
  select = NULL,  
  cache = TRUE  
)
```

### Arguments

date	Numeric. Date of the data in the format <code>yyyymm</code> . Defaults to <code>202001</code> . To download the data for all months in a year, the user can pass a 4-digit year input <code>yyyy</code> . The parameter also accepts a vector of dates such as <code>c(202001, 20206, 202012)</code> .
type	String. Whether the data set should be of the type <code>basica</code> (flight stage, the default) or <code>combinada</code> (On flight origin and destination - OFOD).
showProgress	Logical. Defaults to <code>TRUE</code> display progress.
select	A vector of column names or positions to keep. The rest of the columns are not read. The order that the columns passed determines the order of the columns in the result.
cache	Logical. Whether the function should read cached data downloaded previously. Defaults to <code>TRUE</code> . If <code>FALSE</code> , the function will always download the data and overwrite cached data.

### Value

A `"data.table"` `"data.frame"` object. All columns are returned with class of type `"character"`.

### See Also

Other download flight data: [read\\_aircrafts\(\)](#)

**Examples**

```
## Not run: if (interactive()) {  
# Read flights data  
f201506 <- read_flights(date = 201506)  
  
f2015 <- read_flights(date = 2015)  
}  
## End(Not run)
```



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